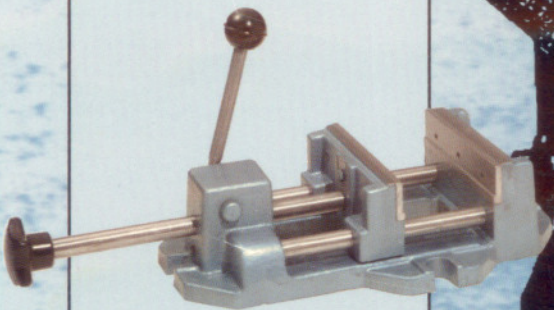
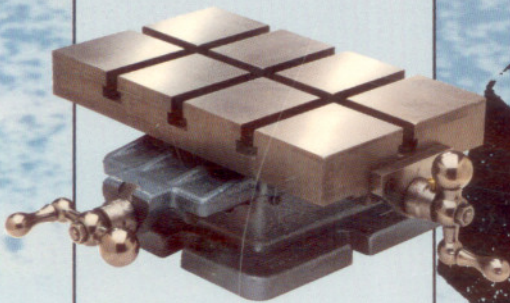
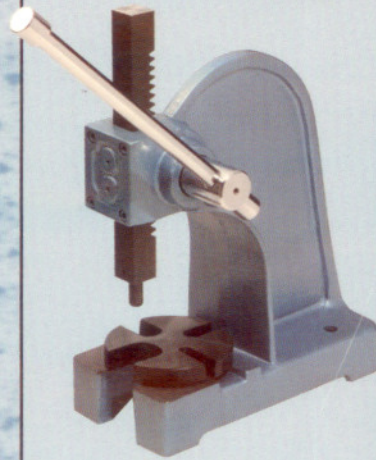
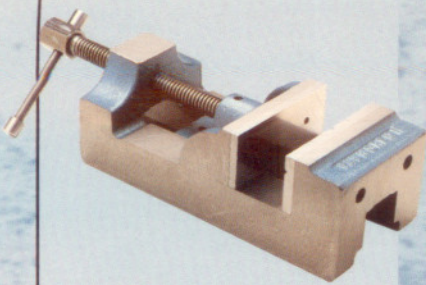


PALMGREN
STEEL PRODUCTS, INC.

**Machine
Tool
Accessories**





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Welcome to the latest Palmgren Steel Products catalog. We consider it a great compliment that you are taking the time to look over our offering.

We have made a number of changes from the last catalog to which we would like to draw your attention. First, we have added a new line of products, our International Quality Line. We created this line in response to customer demand for a wider range of Palmgren-approved machine tool accessories.

Our International Quality Line represents guaranteed quality and value when choosing an imported product.

Of course, we still continue to be one of the leading U.S. manufacturers of machine tool accessories. Be assured that every product marked with a "Made in USA" icon next to the specification table is manufactured here in Illinois. Likewise, there is an icon for our International Quality Line indicating our imported products.

We have also consolidated the number of models offered in some categories. We did this to make it easier to choose exactly which Palmgren product fits the job. For example, we combined our Models 5 and 6 together into a new Model 6 featuring both a grooved and smooth jaw plate. We trust familiar customers will find the equivalent for what they have always ordered, and new customers will find what they need.

If you like what you see, please contact your favorite industrial tool supplier and insist on Palmgren products.

From our skilled hands, into yours!

Respectfully,

Charles Palmgren

Robert Eakins

Chicago, Illinois

Where to find us

Palmgren Steel Products are sold exclusively through our valued network of industrial tool supply distributors. If your regular distributor does not carry Palmgren, please contact us for a list of suppliers in your area.

Warranty

We guarantee the quality of all our products. The only qualification is that the tool is deployed and operated in the manner for which it was designed. Any abuse or misuse of the tool cannot be covered.

Made in USA Products

We offer a lifetime guarantee on all products we manufacture in the USA.

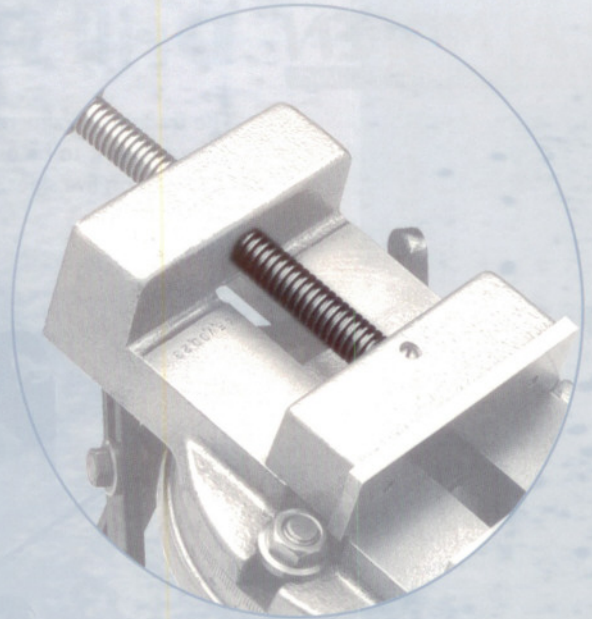
International Quality Line Products

We offer a two-year guarantee on all our imported products.

The standard of the
industry since
1919

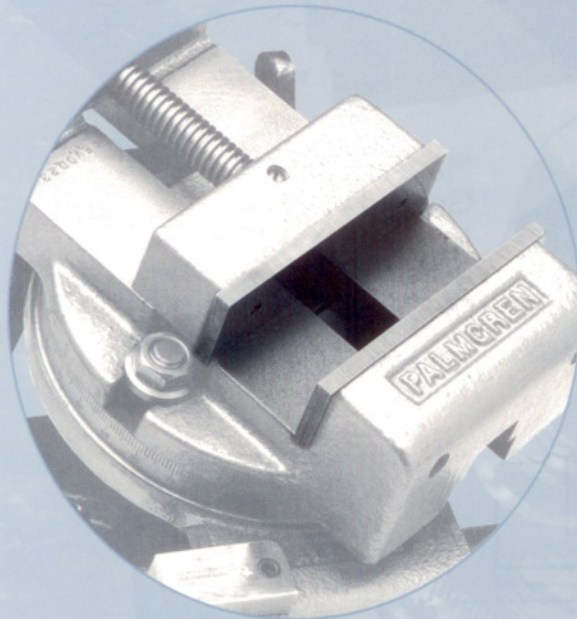
Lead Screws

The lead screw is the key to the clamping action of the vise. All Palmgren products employ high-quality steel screws designed specifically for the size and use of the vise. Fine V-thread lead screws are used on all smaller vises to enable precise movement while still maintaining overall strength. Acme style threads are used in our larger vises. Acme threads provide tremendous strength and rapid movement to cover wider jaw openings.



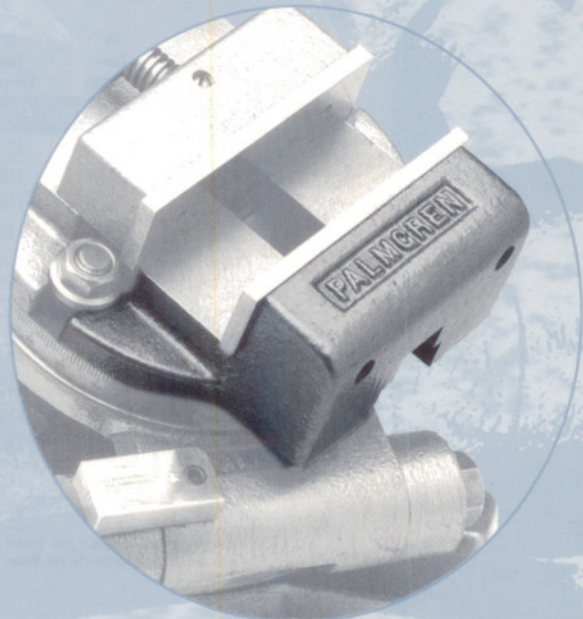
Jaw Plates

From Palmgren's point of view, your work is much more important than the jaw plate. That is why our jaw plates are made of cold-rolled steel and are replaceable on all but a few of our models. Our smooth jaws are machined to allow maximum flexibility in holding material of different configurations. Grooved jaws employ a vertical and horizontal "t" pattern to allow holding cylindrical pieces either perpendicular or parallel to the vise. Knurled jaws use a fine cross hatch pattern for firmly gripping a piece in any position. And on our larger vises, we chamfer the fixed jaw plate to relieve stress on the vise body. We also offer hardened steel jaw plates for many of our vises as an option.



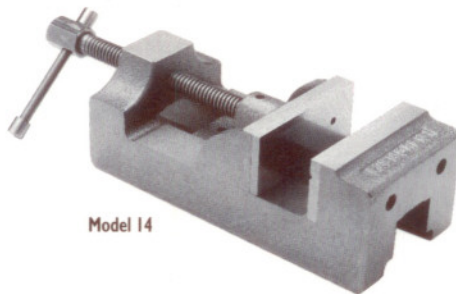
Castings

A vise is really only as good as the casting it comes from. Palmgren selects its foundries for their ability to provide consistent, fine-grade grey iron product to us. We take special care to make sure each casting is even, without hard spots or pits, that could shorten the life of the vise.

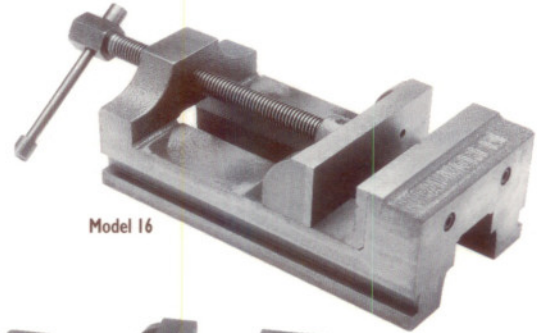


Drill Press Vises

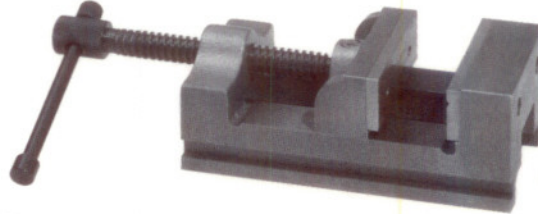
The traditional Palmgren design for drilling, tapping, reaming and grinding. The rectangular shape allows it to be used laying on its base, sides or end for tremendous flexibility. Machined on five sides.



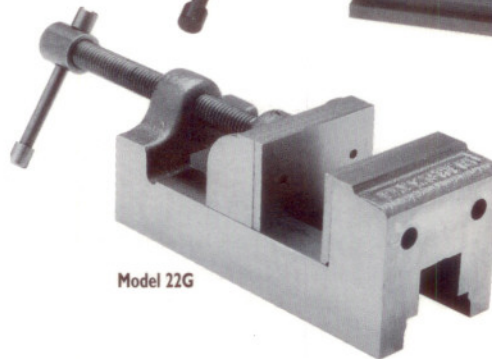
Model 14



Model 16



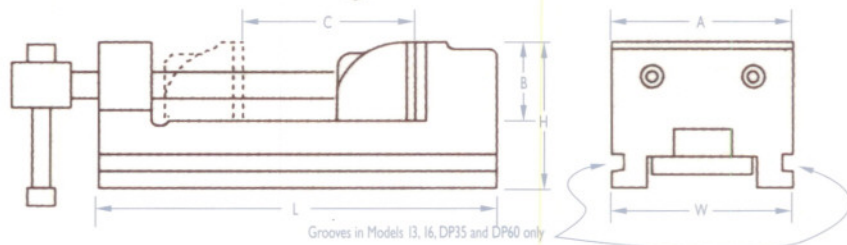
Model DP35



Model 22G

Models 11G - 14G Ground Vises

A precision vise for close-tolerance applications. Finely ground after machining for squareness and parallelism on five sides to ± 0.0002 of an inch.



Traditional Drill Press Vises

Model	A Jaw Width	B Jaw Depth	C Jaw Opening	H Height	Jaw Type	Lead Screw Type	Weight
6	1 1/2"	1"	1 1/2"	1 13/16"	Grooved*	V-Thread	2 lbs.
10	2 7/16"	1 1/2"	3"	2 9/16"	Grooved**	V-Thread	6 lbs.
30	2 7/16"	1 1/2"	2 1/2"	2 9/16"	Grooved*	V-Thread	6 lbs.
13	3"	1 3/4"	3"	3"	Smooth	Acme	11 lbs.
14	4"	1 3/4"	4"	3 1/4"	Grooved	Acme	19 lbs.
16	6"	2"	6"	4"	Grooved	Acme	39 lbs.



Ground Vises

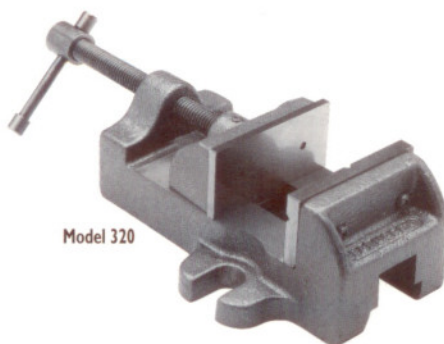
11G	1 1/2"	1"	1 5/8"	1 13/16"	Smooth	V-Thread	2 lbs.
22G	2 7/16"	1 1/2"	2 5/8"	2 9/16"	Smooth	V-Thread	6 lbs.
14G	4"	1 3/4"	4"	3 1/4"	Smooth	Acme	19 lbs.



International Drill Press Vises

DP35	3 1/2"	1 3/8"	3"	2 3/4"	Grooved	Acme	9 lbs.
DP60	6"	2"	6"	4"	Grooved	Acme	35 lbs.

* Also includes smooth jaw plate
** Grooves made directly on fixed jaw



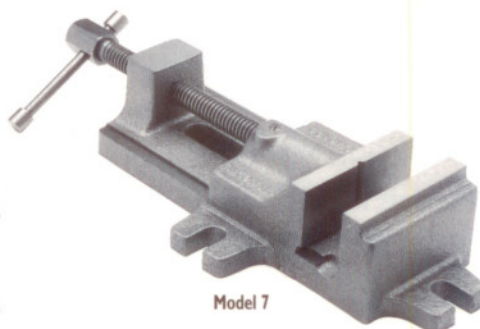
Model 320

Models 120 and 320

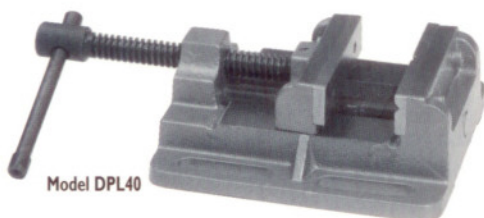
Handy, general-purpose vises every shop needs. Recommended for use on drill presses, milling machines, grinders and other machine tools where secure mounting is essential. V-thread lead screw allows fine jaw adjustment.

Model 7 Utility Vise

A sturdy, compact vise with low overall height and three mounting lugs for versatile positioning. Long jaw opening relative to 3½" jaw width accommodates unusual pieces. Extra wide Acme-thread lead screw for rapid jaw movement.



Model 7



Model DPL40

Models DPL30 - DPL80 Low-Profile Vises

Low overall height and four mounting slots provides tool clearance and firm mounting on almost any machine table.

Mounting

- Model 120 has ⅜" bolt lugs and 320 has ⅞" bolt lugs on either side.
- Model 7 has a ½" bolt lugs on the front end and on either side.
- Models DPL30, DPL40 and DPL60 have two ½" slots and DPL80 has ⅝" slots on either side.

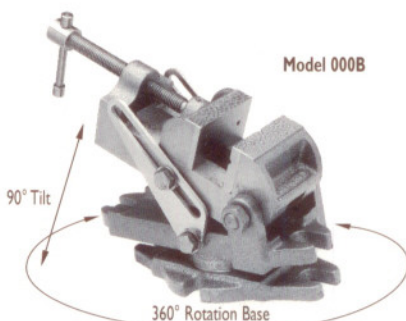
Model	A Jaw Width	B Jaw Depth	C Jaw Opening	H Height	L x W Base Size	Jaw Type	Lead Screw Type	Weight
Drill Press Vises with Mounting Lugs								
120	1¾"	1"	1½"	1½⅝"	4¼" x 3½"	Grooved	V-Thread	3 lbs.
320	3"	1½"	3"	2⅝"	6⅜" x 5⅝"	Grooved	V-Thread	8 lbs.
Utility Drill Press Vise								
7	3½"	1½"	4"	2⅞"	10¾" x 6¼"	Grooved*	Acme	12 lbs.
Low Profile Drill Press Vises								
DPL30	3"	1⅞"	2¾"	2¼"	6⅞" x 5½"	Grooved	Acme	6 lbs.
DPL40	4"	1⅜"	3½"	2⅜"	6⅜" x 6½"	Grooved	Acme	9 lbs.
DPL60	6"	1½"	5⅝"	3"	9⅝" x 8⅞"	Smooth	Acme	19 lbs.
DPL80	8"	1¾"	8"	3⅜"	13¾" x 11⅞"	Stepped	Acme	37 lbs.

* Single vertical groove made directly on moveable jaw.



Angle Vises

These sturdy vises are indispensable for work that requires frequent angle set-ups, including drilling, tapping, reaming, milling and grinding. You can do away with awkward clamps and wedges and obtain quick, accurate set-up at any vertical angle between 0 and 90°. When lowered into the horizontal position, our angle vises can also be used as a traditional drill press vise.

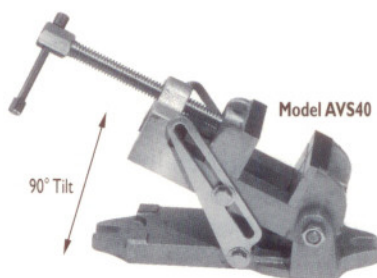
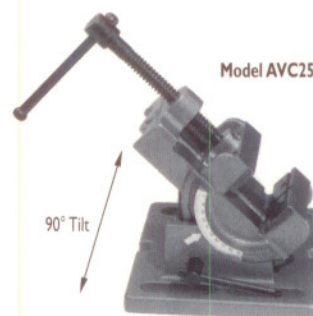


Models XI - 24B

The time-tested Palmgren angle vise, with an optional twist. Models 000B, and 24B come with a robust 360° swivel base which may be locked at any point via two bolts. Securely fasten at any angle from 0 to 90° with four bolts and two side plates.

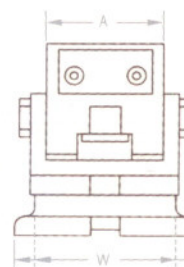
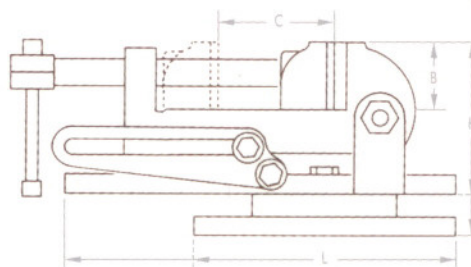
Models AVC25 and AVC35

The Palmgren cradle-style angle vise allows rapid set-up at 0°, 30°, 45° and 90° with positive pin-stops drilled into the cradle base. A hand-tightened mechanism allows locking at all other positions.



Mounting

- Model XI has $\frac{3}{8}$ " bolt lugs on either end.
- Models 000, 000B, 24 and 24B, AVS40 and AVS60 have $\frac{1}{2}$ " bolt lugs on either end.
- Models AVC25 and AVC35 have two $\frac{1}{2}$ " slots on either side.

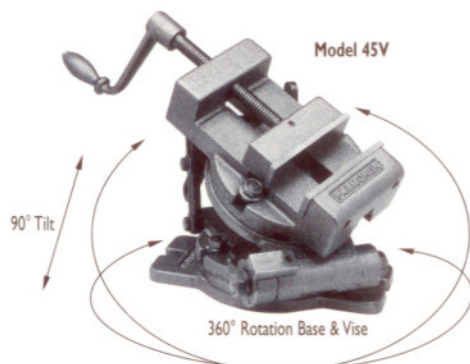


Model	A Jaw Width	B Jaw Depth	C Jaw Opening	H Height at 0°	L x W* Base Size	Jaw Type	Lead Screw Type	Weight
Angle Vises								
XI	1½"	1"	1½"	2⅞"	5¾" x 2⅞"	Grooved	V-Thread	4 lbs.
000	2⅞"	1½"	2½"	3⅞"	7⅞" x 3¼"	Grooved	V-Thread	10 lbs.
000B	2⅞"	1½"	2½"	4⅞"	4" x 6⅞"	Grooved	V-Thread	14 lbs.
24	4"	1¾"	4"	4⅞"	12⅞" x 5⅞"	Grooved	Acme	31 lbs.
24B	4"	1¾"	4"	5⅞"	5¾" x 8⅞"	Grooved	Acme	36 lbs.
International Angle Vises								
AVC25	2½"	1⅞"	2½"	3⅞"	5⅞" x 6⅞"	Grooved	Acme	10 lbs.
AVC35	3½"	1½"	3½"	4⅞"	7" x 7⅞"	Grooved	Acme	17 lbs.
AVS40	4"	1½"	4"	4¾"	12¼" x 5⅞"	Grooved	Acme	31 lbs.
AVS60	6"	2"	6"	5¼"	14⅞" x 7¼"	Grooved	Acme	51 lbs.

* For model numbers with a "B", L x W is measurement of the swivel base.

Compound Angle Vises

When a simple vertical angle is not enough, the Palmgren compound angle vises can provide a set up in any position. With both Models 45V and 55, you get a 360° swivel base, 0 and 90° vertically, plus something more. This combination of movements makes it possible to set up at practically any angle, and then quickly change to another combination. When lowered into the horizontal position, both compound vises can also be used as a traditional drill press vise.

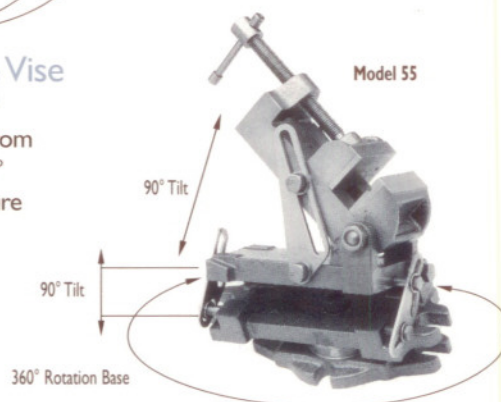


Model 45V Heavy Duty Compound Angle Vise

This vise provides for 360° rotation of the swivel base, another 360° rotation of the vise, plus any angle from 0 to 90° vertically. Locking bolts secure all set ups. The heavy, 4" vise and corresponding base makes this a real workhorse.

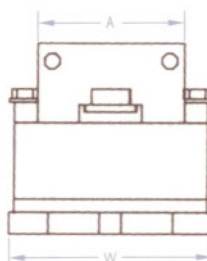
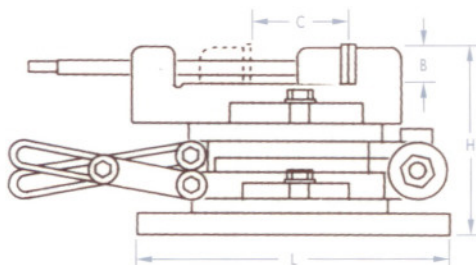
Model 55 Compound Angle Vise

The Palmgren model 55 provides 360° rotation of the swivel base, any angle from 0 to 90° vertically, and another 0 to 90° perpendicular angle. Locking bolts secure all set ups.



Mounting

- Model 45V has 1 1/16" keyways and bolt lugs on either end.
- Model 55 has 5/8" keyways and bolt lugs on either end.

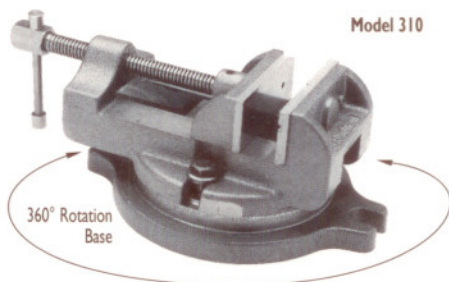


Model	A Jaw Width	B Jaw Depth	C Jaw Opening	H Height at 0°	L x W Base Size	Jaw Type	Lead Screw Type	Weight
All Angle Vises								
55	2 7/16"	1 1/2"	2 1/2"	5 5/8"	6 7/8" x 4"	Grooved	V-Thread	18 lbs.
45V	4 1/2"	1 1/4"	4"	5 15/16"	10" x 6 1/2"	Smooth	Acme	49 lbs.



Machine Vises

Intended for demanding vertical and horizontal machining tasks, such as milling and shaping, where accuracy, strong clamping and secure mounting are all requirements. Palmgren machine vises offer all these attributes in a variety of configurations. Of course, our machine vises may also be used on drill presses and grinders.



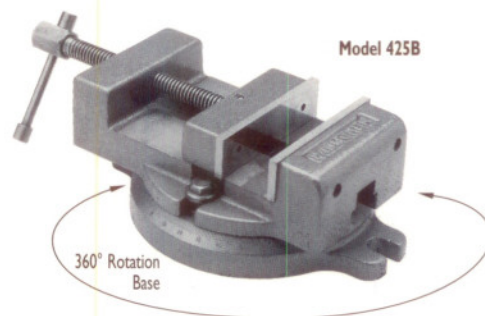
Model 310

Models 310 - 610B Swivel Machine Vises

Durable, general-purpose machine vises. All sizes available with a 360° swivel base (indicated with a "B" at the end of the model number). Locking bolts fasten the vise at the desired position in 1° increments.

Models 325 - 425B Low-Profile Machine Vise

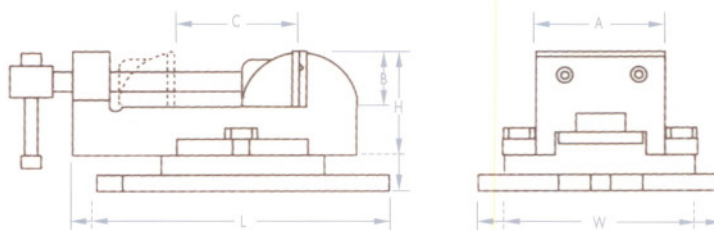
A rugged vise designed for low clearance applications. Both sizes available with a 360° swivel base (indicated with a "B" at the end of the model number). Locking bolts fasten the vise at the desired position in 1° increments.



Model 425B

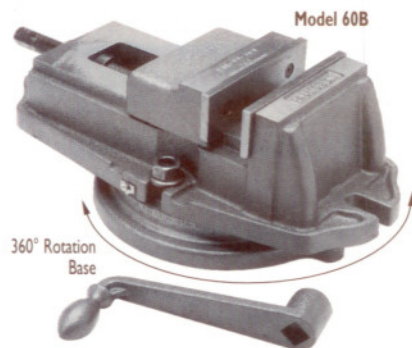
Mounting

- Models 310, 325 and 425 have $\frac{3}{8}$ " bolt lugs on either side.
- Models 410 and 610 have $\frac{1}{2}$ " bolt lugs on either side.
- Models 310B, 410B and 610B have $\frac{5}{8}$ " keyways and bolt lugs on either end.
- Models 325B and 425B have $\frac{7}{16}$ " keyways and bolt lugs on either end.



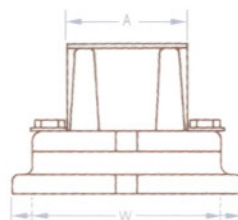
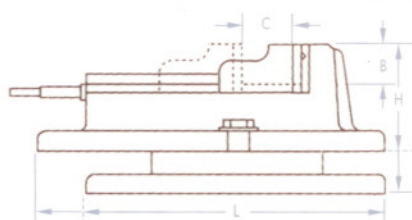
Model	A Jaw Width	B Jaw Depth	C Jaw Opening	H Height	L x W* Base Size	Jaw Type	Lead Screw Type	Weight
Swivel Machine Vises								
310	3"	1 1/2"	3"	2 1/16"	6 3/4" x 4 5/8"	Grooved	V-Thread	9 lbs.
310B	3"	1 1/2"	3"	4"	8" x 5 3/4"	Grooved	V-Thread	12 lbs.
410	4"	1 3/4"	4"	3 3/8"	8 13/16" x 6 1/4"	Grooved	Acme	18 lbs.
410B	4"	1 3/4"	4"	4 3/4"	9" x 7 1/2"	Grooved	Acme	23 lbs.
610	6"	2"	6"	3 7/8"	11 1/16" x 8 1/2"	Grooved	Acme	35 lbs.
610B	6"	2"	6"	5 1/2"	12" x 10"	Grooved	Acme	50 lbs.
Low-Profile Machine Vises								
325	3 1/2"	1 1/8"	3"	2 1/16"	7 1/8" x 5 1/4"	Smooth	Acme	11 lbs.
325B	3 1/2"	1 1/8"	3"	3"	8" x 6 1/8"	Smooth	Acme	15 lbs.
425	4 1/2"	1 1/4"	4"	2 3/8"	8 13/16" x 6 1/4"	Smooth	Acme	18 lbs.
425B	4 1/2"	1 1/4"	4"	3 1/2"	9 5/8" x 7 1/8"	Smooth	Acme	25 lbs.

* For model numbers with a "B", L x W is measurement of the swivel base.



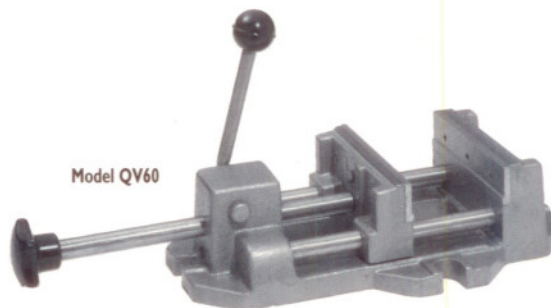
Models 60 - 80B Heavy-Duty Machine Vises

A large, heavy-duty vise built for production, tooling and maintenance. The body features a double-ribbed forward section to meet the requirements of demanding machine applications. The removable handle is extra-long and machined from a single casting for increased leverage. Includes a coolant trough. Both sizes available with a 360° swivel base (indicated with a "B" at the end of the number). Locking bolts fasten the vise at the desired position in 1° increments.



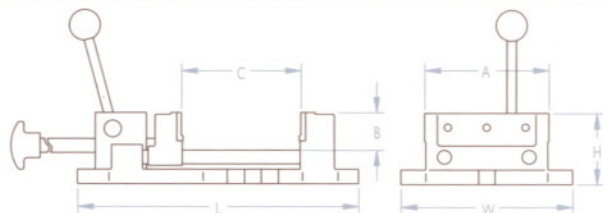
Models QV30 - QV60 Quick Vise

A particularly sturdy quick-action cam vise for machine applications where the work must be secured and released rapidly. Precision-ground guide bars and forceful locking cam provide smooth, secure clamping. The QV30 features a side-actuated cam; the QV40 and QV60 utilize a top-actuated cam.



Mounting

- Models 60 - 80B have $1\frac{1}{16}$ " keyways and bolt lugs on either end.
- Model QV30 has four $\frac{1}{2}$ " bolt slots on either side.
- Models QV40 and QV60 have $\frac{3}{4}$ " bolt lugs on either side and ends.



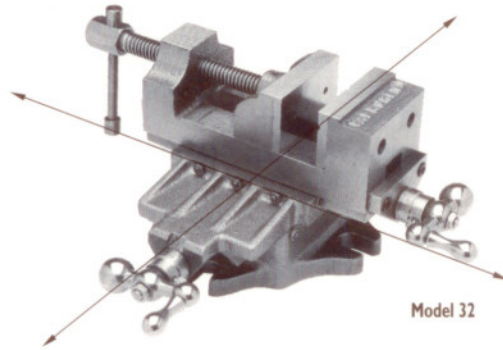
Model	A Jaw Width	B Jaw Depth	C Jaw Opening	H Height	L x W* Base Size	Jaw Type	Lead Screw Type	Weight
Heavy-Duty Machine Vises								
60	6"	2"	6"	5"	18" x 9"	Smooth	Acme	80 lbs.
60B	6"	2"	6"	6 $\frac{5}{8}$ "	12 $\frac{1}{2}$ " x 10 $\frac{1}{2}$ "	Smooth	Acme	107 lbs.
80	8"	2 $\frac{1}{4}$ "	8"	5 $\frac{5}{8}$ "	21 $\frac{1}{2}$ " x 11"	Smooth	Acme	150 lbs.
80B	8"	2 $\frac{1}{4}$ "	8"	7 $\frac{5}{8}$ "	15 $\frac{1}{4}$ " x 12 $\frac{1}{8}$ "	Smooth	Acme	190 lbs.
Quick Vises								
QV30	3"	1 $\frac{3}{16}$ "	3"	2 $\frac{5}{16}$ "	5 $\frac{7}{8}$ " x 5 $\frac{5}{16}$ "	Smooth	—	6 lbs.
QV40	4"	1 $\frac{5}{16}$ "	4"	3"	10 $\frac{1}{2}$ " x 5 $\frac{7}{8}$ "	Smooth	—	12 lbs.
QV60	6"	1 $\frac{7}{8}$ "	6"	3 $\frac{3}{4}$ "	14 $\frac{1}{4}$ " x 8 $\frac{1}{16}$ "	Stepped	—	31 lbs.

* For model numbers with a "B", L x W is measurement of the swivel base.



Cross-Slide Vises

Palmgren cross-slide vises are designed to accurately move or position clamped work in two directions. Used in machining applications where a vise must be precisely positioned along the X and Y axis.



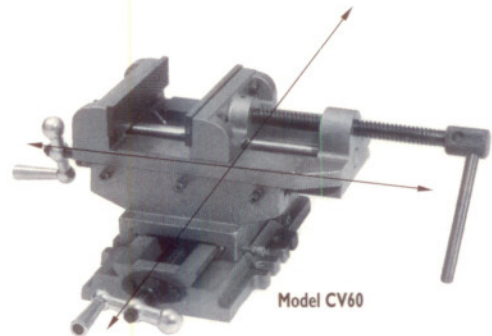
Model 32

Model 32

A durable vise built on a rugged, cast base. Counter-balanced solid steel ball-crank handles enable smooth movement and do not extend below the base, eliminating interference from the machine top. Dials graduated in 0.001" increments. By removing two screws, the vise can be removed from the base and used conventionally.

Models CV30 - CV80

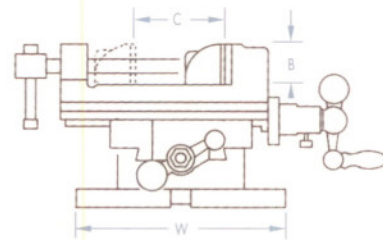
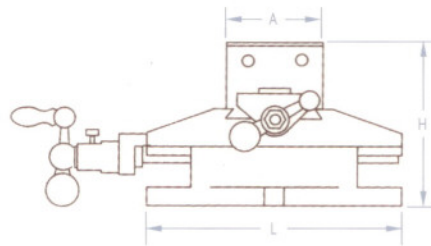
A range of sizes to fit most cross-slide applications. Long leadscrew and handle for tight workholding. Locking levers on the X and Y axis to secure the vise in position.



Model CV60

Mounting

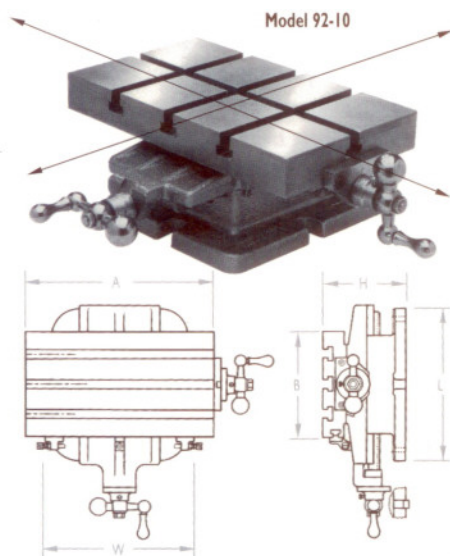
- Model 32 has four 1/2" bolt lugs, one on each side.
- Models CV30 - CV80 have three 1/2" bolt lugs on each side.



Model	A Jaw Width	B Jaw Depth	C Jaw Opening	H Height	L x W Base Size	Jaw Type	Lead Screw Type	Weight
Traditional Cross Slide Vise								
32	3"	1 3/4"	3"	5 1/2"	7 5/8" x 6 5/8"	Grooved	Acme	26 lbs.
International Cross Slide Vises								
CV30	3"	1"	2 5/8"	4 1/2"	8 1/4" x 6"	Knurled	Acme	32 lbs.
CV60	6"	1 3/4"	5 5/8"	6 1/2"	11" x 6 3/4"	Knurled	Acme	43 lbs.
CV80	8"	2"	7 1/16"	7 1/8"	12 1/4" x 7 5/8"	Smooth	Acme	68 lbs.

Slide & Cross-Slide Tables

Palmgren rigid, precision tables are used for any application requiring accurate placement. Used in screening, positioning and layout as well as common machining applications, such as drilling, boring and grinding. Table tops are ground and machined with lateral and cross "T" slots, depending on the design. Bases are of solid castings. The heavy handles permit smooth movement.

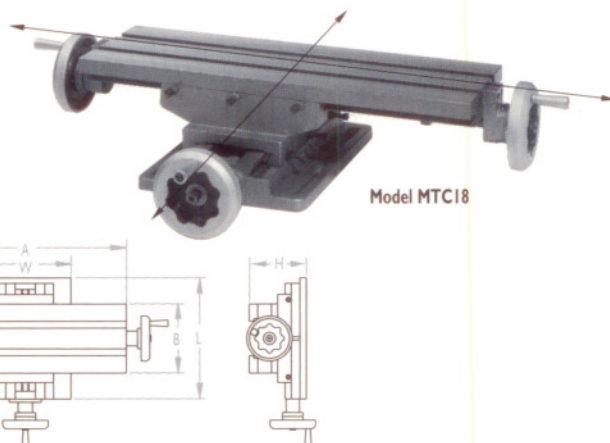


Models 90 - 10 - 192 - 16 Slide and Cross-Slide Tables

A range of tables to satisfy a wide variety of applications. All tables in this series have precision-ground tops to 0.001" total indicator reading. Dials are graduated in 0.001" increments and have thumbscrews for easy "0" setting. The 90-10, 90-12 and 190-16 feature single axis movement only, while the 92, and 192 series all provide both X and Y axis movement. The 93-12 also has angular inclination from 0 to 90° via two side plates secured with four bolts. Models 90, 92 and 93 series have a single longitudinal T-slot with three transverse 7/16" T-slots. The 190 and 192 series three longitudinal 5/8" T-slots.

Model MTC18

With a wheel handle at each end of the table-top, positioning may be performed from either side. Rotary dials graduated in 0.001" increments. Two longitudinal 7/16" T-slots.



Mounting

- Model 90, 92 and 93 series have four 1/2" bolt lugs, one on each side.
- Model 190 and 192 series have four 5/8" bolt lugs, one on each side.
- Model MTC18 has two 1/2" bolt slots on each side.



Model	A x B Table Size	H Height	L x W Base Size	X x Y Table Travel	Weight
Slide Tables & Cross Slide Tables					
90-10	10" x 6"	3 1/2"	6 3/8" x 7 5/8"	6"	34 lbs.
90-12	12" x 6"	3 1/2"	6 3/8" x 7 5/8"	8"	39 lbs.
92-10	10" x 6"	4 3/8"	7 5/8" x 6 3/8"	6" x 4"	40 lbs.
92-12	12" x 6"	4 3/8"	7 5/8" x 6 3/8"	8" x 4"	44 lbs.
93-12	12" x 6"	4 5/8"	9" x 5"	8" x 4"	48 lbs.
190-16	16" x 8"	4 5/8"	10" x 11 1/2"	10"	102 lbs.
192-16	16" x 8"	6 1/8"	11 1/2" x 10"	10" x 8"	149 lbs.
Compound Milling Table					
MTC18	18 5/8" x 6"	5"	10 1/2" x 7 7/8"	12 1/2" x 7 1/2"	57 lbs.



Rotary Indexing Tables

Palmgren rotary tables are used for applications which require precise, indexed placement. Bolted to a drill press, milling machine, grinder or other machine, these tables increase your ability to mill, route, shape, cut slots or keyways, surface and grind. Also may be used in other applications requiring accurate placement, such as layout, screening or positioning.

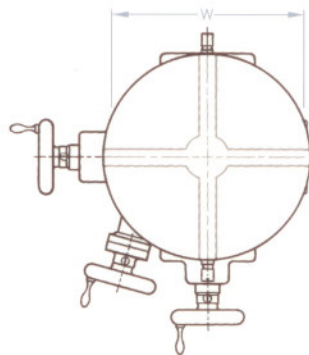
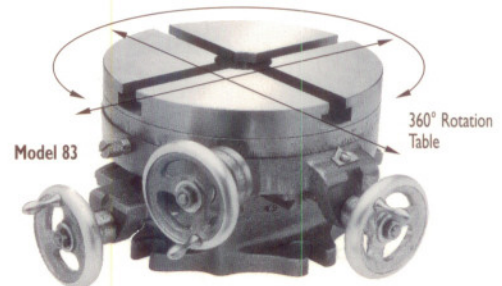
- Table tops are ground and machined with lateral and cross T-slots to 0.001" total indicator reading.
- Table top center bore is 1 5/8", except on Model 103 which has a 1" bore.
- Heavy handles permit smooth movement and do not extend below the base.
- 360° graduated table has two locks to secure table position. Adjustable pointer.
- Slides have adjustable gibs to maintain accuracy and easy operation.
- On 15" tables, feed screws are mounted in adjustable roller thrust bearings. Rotary feed can be disengaged for rapid rotation on the table. Tops are scribed with concentric circles 1/2" apart and have three T-slots in one direction and one at 90°.

Mounting

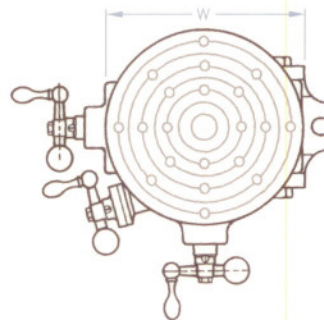
- 8" and 10" diameter tables have four 1/2" bolt lugs and 5/8" keyways.
- 15" diameter tables have 5/8" bolt lugs and 1 1/16" keyways.

Models 83 - 1583 Cross-Slide Rotary Indexing Tables

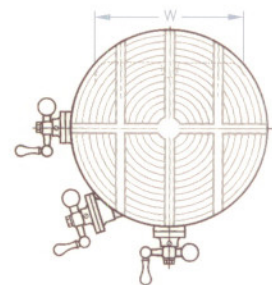
These tables feature rotary, lateral and transverse indexing. The Model 103 table top is tapped as a locator plate with four equally spaced holes (two on each axis) drilled on concentric circles, each scribed 1/2" apart from the outer edge.



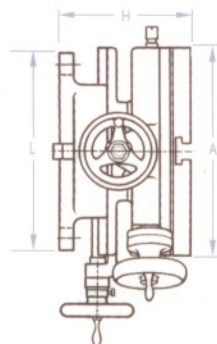
Top for Models 83 & 183



Top for Model 103



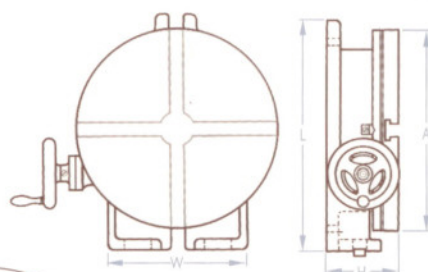
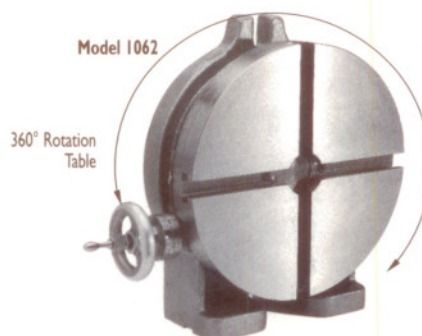
Top for Model 1583



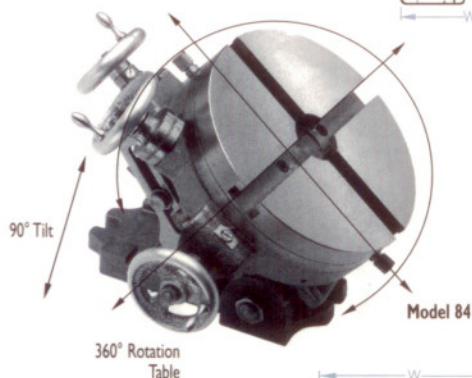
Handwheel on Models 83 and 183
Ball Crank on Models 103 and 1583

Models 862 - 1562 Vertical / Horizontal Rotary Indexing Tables

For use in either the horizontal or vertical position. The table top and the vertical and horizontal bases are ground for overall squareness. A keyway and bolt lugs are provided on both mounting surfaces.

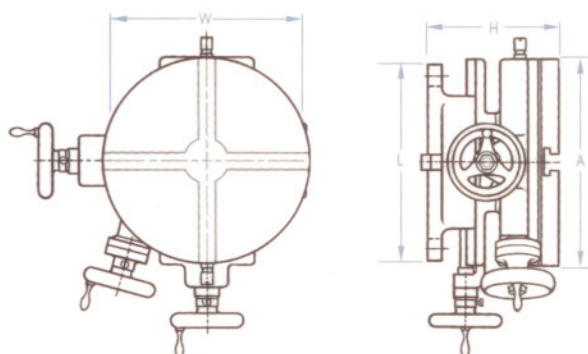


Handwheel on Models
862 and 1062
Ball Crank on Model 1562



Models 84 and 184 Tilting, Cross-Slide Rotary Indexing Tables

These tables feature rotary, lateral and transverse indexing as well as angular inclination from 0 to 90° via two side plates secured with four bolts. The hinge boss is scribed in 2° increments.



Cross Slide Rotary Tables

Model	A Table Diameter	H Height at 0°	X x Y Table Trvl.	L x W Base	Gear Ratio	Weight
83	8"	5 1/2"	4" x 4"	6 5/8" x 7 5/8"	40:1	40 lbs.
103	8"	5 1/4"	4" x 4"	6 3/8" x 7 3/8"	40:1	44 lbs.
183	10"	5 5/8"	4" x 4"	6 3/8" x 7 3/8"	40:1	52 lbs.
1583	15"	8 3/8"	8" x 8"	10" x 11 1/2"	90:1	215 lbs.



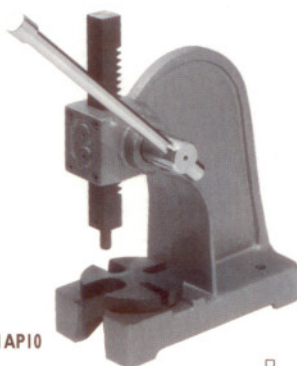
Vertical/Horizontal Rotary Indexing Tables

862	8"	3 1/16"	—	12" x 9 1/2"	40:1	44 lbs.
1062	10"	3 7/8"	—	12" x 9 1/2"	40:1	52 lbs.
1562	15"	4 3/4"	—	17" x 14"	90:1	192 lbs.

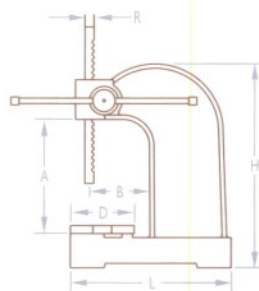
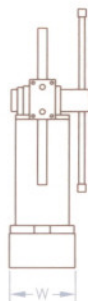


Tilting Cross Slide Rotary Tables

84	8"	5"	4" x 4"	5" x 9"	40:1	45 lbs.
184	10"	5 3/4"	4" x 4"	5" x 9"	40:1	54 lbs.



Model AP10



Arbor Presses

The Palmgren arbor press delivers the heavy force needed for riveting, squeezing, punching, bending, and other pressing applications. Sturdy, cast-iron construction. Removable, machined steel anvil provides accurate work support in four slot positions. Rugged, steel ram is driven by a machined pinion. Punches or tools may be added to the end of the ram. Base drilled for mounting on a bench or pedestal.

Model 250V and 400V Lathe Milling Attachments

With the Palmgren Lathe Milling Attachment, you can adapt your lathe to mill, slot, grind, groove, dovetail, square, angle cut, recess and more. Simply mount the attachment to the tool post and the cutting tool in the lathe's chuck. It has 360° graduation for rotary angle adjustments and a graduated feed screw. Fits most major lathes with a single tool post. The 250V is recommended for 8 to 10" lathes and the 400V for 12 to 16". For smaller lathes, the 250V will fit if there is sufficient vertical clearance.



Model 250V



T-Slotting



End Milling



External
Dovetale



End Mill Angle
Cut



Cutting
Keyway

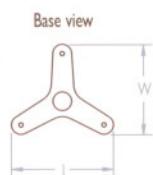


Model	Force (Tons)	B Swing	D Anvil Diameter	Slots Range	A Max. Work Height	R Ram Dimension	H Height	W x L Base Dimen.	Weight
Arbor Presses									
AP05	0.5	6½"	3½"	⅜"-1½/16"	4½"	¾" x ¾"	10¼"	4" x 9¼"	17 lbs.
AP10	1.0	8"	4½"	7/16"-1½/16"	5½"	1" x 1"	12"	5" x 10½"	25 lbs.
AP20	2.0	10¾"	6⅝"	1"-2"	8"	1¼" x 1¼"	17¼"	6⅝" x 16"	59 lbs.
AP30	3.0	11"	6⅝"	1"-2"	12½"	1½" x 1½"	22"	7⅞" x 18"	97 lbs.
AP40	4.0	16¼"	9½"	1"-2¼"	15¾"	1¾" x 1¾"	29⅜"	9¼" x 21¼"	197 lbs.



Model	Jaw Width	Jaw Depth	Jaw Opening	Tool Post to Dia.	Vert. Travel	Weight
Lathe Milling Attachments						
250V	2⅞"	1½"	2½"	1¼"	3"	12 lbs.
400V	4"	1¾"	4"	1¾"	4"	36 lbs.

Support Devices



Model MSH14

Horizontal Material Support Stand

The Palmgren material support stand is designed for handling heavy loads of flat stock. Chrome plated, 2" x 14" ball bearing roller head smoothly moves the work stock. Clamping mechanism allows for quick and easy height adjustments. Locking screws provide added safety. Made of heavy-duty cast iron and steel.

V-Roller Material Support Stand

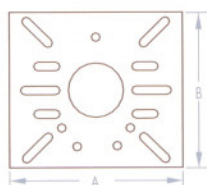
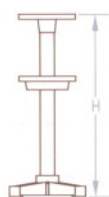
The Palmgren material support stand is designed for handling heavy loads of round stock. Chrome plated, 2" x 5" ball bearing roller heads smoothly move round stock of 1" to 18" diameter. Clamping mechanism allows for quick and easy height adjustments. Locking screws provide added safety. Made of heavy-duty cast iron and steel.



Model MSV18



Model GS32



Bench Grinder Pedestal Stand

The Palmgren bench grinder stand is designed to accommodate most 6", 7", 8" and 10" bench grinders available in the market, including Baldor, Dayton, and Craftsman. Base and top made of heavy-duty cast iron with a 3½" steel column. Built-in water pot provides quenching for workpiece after grinding. Secure grinder mounting via holes and slots in the top.

Model	Weight Holding Capacity	Length of Horizontal Roller	Height Range	L x W Base Size	Weight
Horizontal Material Support Stand					
MSH14	2000 lbs.	14"	23" to 38½"	15" x 16½"	45 lbs.

Model	Weight Holding Capacity	Minimum Stock Diameter	Maximum Stock Diameter	Height Range	L x W Base Size	Weight
Vertical Material Support Stand						
MSV18	2000 lbs.	1"	18"	23" to 38½"	15" x 16½"	45 lbs.

Model	Column Diameter	A x B Table Size	H Height	L x W Base Size	Weight
Bench Grinder Pedestal Stand					
GS32	3½"	10" x 11"	32¾"	15" x 16½"	58 lbs.



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